

02/02

#2

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/023,896

DATE: 01/15/2002
TIME: 19:05:23

Input Set : A:\PA004P1seqList.txt
Output Set: N:\CRF3\01152002\J023896.raw

1 <110> APPLICANT: Victor Roschke
 3 <120> TITLE OF INVENTION: 29 Human Cancer Associated Proteins
 5 <130> FILE REFERENCE: PA004P1
 CQ✓ 7 <140> CURRENT APPLICATION NUMBER: US/10/023,896
 CQ✓ 7 <141> CURRENT FILING DATE: 2001-12-21
 7 <150> PRIOR APPLICATION NUMBER: unassigned
 8 <151> PRIOR FILING DATE: 2001-12-21
 10 <150> PRIOR APPLICATION NUMBER: PCT/US00/23794
 11 <151> PRIOR FILING DATE: 2000-08-30
 13 <150> PRIOR APPLICATION NUMBER: 60/152,296
 14 <151> PRIOR FILING DATE: 1999-09-03
 16 <150> PRIOR APPLICATION NUMBER: 60/158,003
 17 <151> PRIOR FILING DATE: 1999-10-06
 19 <160> NUMBER OF SEQ ID NOS: 138
 21 <170> SOFTWARE: PatentIn Ver. 2.0
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 733
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 28 <400> SEQUENCE: 1
 29 gggatccgga gcccaaatact tctgacaaaaa ctcacacatg cccaccgtgc ccagcacctg 60
 30 aattcgggg tgcaccgtca gttttcctct tccccccaaa acccaaggac accctcatga 120
 31 tctcccgac tcctgaggtc acatgcgtgg tggtgacgt aagccacgaa gaccctgagg 180
 32 tcaagttcaa ctggtaacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 33 aggagcagta caacagcacy taccgtgtgg tcaagcgtcct caccgtccctg caccaggact 300
 34 ggctaatgg caaggagtagc aagtgcagg tctccaaacaa agccctccca acccccatacg 360
 35 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acagggtgtac accctgcccc 420
 36 catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctggc aaaggcttct 480
 37 atccaaagcga catcgcgtg gagtgggaga gcaatggca gccggagaaac aactacaaga 540
 38 ccacgcctcc cgtgctggac tccgacggct ccttcttcctt ctacagcaag ctcaccgtgg 600
 39 acaagagcag gtggcagcag gggAACGTCT tctcatgctc cgtgatgcat gaggtctgc 660
 40 acaaccacta cacgcagaag agcctctccc tgtctccggg taaaatgagtg cgacggccgc 720
 41 gactctagag gat 733
 43 <210> SEQ ID NO: 2
 44 <211> LENGTH: 5
 45 <212> TYPE: PRT
 46 <213> ORGANISM: Homo sapiens
 48 <220> FEATURE:
 49 <221> NAME/KEY: Site
 50 <222> LOCATION: (3)
 51 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
 53 <400> SEQUENCE: 2
 W✓> 54 Trp Ser Xaa Trp Ser
 55 1 5
 57 <210> SEQ ID NO: 3
 58 <211> LENGTH: 86
 59 <212> TYPE: DNA

ENTERED

P.S

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/023, 896

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Input Set : A:\PA004\P1seqList.txt

Output Set: N:\CRF3\01152002\J023896.raw

60 <213> ORGANISM: Artificial Sequence
 62 <220> FEATURE:
 63 <221> NAME/KEY: Primer_Bind
 64 <223> OTHER INFORMATION: Synthetic sequence with 4 tandem copies of the GAS binding site
 65 found in the IRF1 promoter (Rothman et al., Immunity 1:457-468
 66 (1994)), 18 nucleotides complementary to the SV40 early promoter,
 67 and a Xho I restriction site.
 69 <400> SEQUENCE: 3
 70 ggcgcctcgag atttccccga aatcttagatt tcccccggaaat gattttcccg aaatgatttc 60
 71 cccggaaatat ctgccatctc aattag 86
 73 <210> SEQ ID NO: 4
 74 <211> LENGTH: 27
 75 <212> TYPE: DNA
 76 <213> ORGANISM: Artificial Sequence
 78 <220> FEATURE:
 79 <221> NAME/KEY: Primer_Bind
 80 <223> OTHER INFORMATION: Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.
 81 <400> SEQUENCE: 4
 84 gcgccaaagct ttttgccaaag ccttaggc 27
 86 <210> SEQ ID NO: 5
 87 <211> LENGTH: 271
 88 <212> TYPE: DNA
 89 <213> ORGANISM: Artificial Sequence
 91 <220> FEATURE:
 92 <221> NAME/KEY: Protein_Bind
 93 <223> OTHER INFORMATION: Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).
 97 <400> SEQUENCE: 5
 98 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tcccccggaaat gattttcccg 60
 99 aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc 120
 100 gcccctaact ccgcccagg ttccgccccat ggctgactaa ttttttttat 180
 101 ttatgcagag gccgaggccg cctcggccctc tgagctattc cagaagtatgt gaggaggctt 240
 102 ttttggaggc cttaggctttt gcaaaaagct t 271
 104 <210> SEQ ID NO: 6
 105 <211> LENGTH: 32
 106 <212> TYPE: DNA
 107 <213> ORGANISM: Artificial Sequence
 109 <220> FEATURE:
 110 <221> NAME/KEY: Primer_Bind
 111 <223> OTHER INFORMATION: Synthetic primer complementary to human genomic EGR-1 promoter
 112 sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a
 113 Xho I restriction site.
 115 <400> SEQUENCE: 6
 116 gcgctcgagg gatgacagacg atagaacccc gg 32
 118 <210> SEQ ID NO: 7
 119 <211> LENGTH: 31
 120 <212> TYPE: DNA

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Input Set : A:\PA004\P1seqList.txt
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121 <213> ORGANISM: Artificial Sequence
 123 <220> FEATURE:
 124 <221> NAME/KEY: Primer_Bind
 125 <223> OTHER INFORMATION: Synthetic primer complementary to human genomic EGR-1 promoter
 126 sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.
 127
 129 <400> SEQUENCE: 7
 130 gcgaagcttc ggcgactcccc ggatccgcct c 31
 132 <210> SEQ ID NO: 8
 133 <211> LENGTH: 12
 134 <212> TYPE: DNA
 135 <213> ORGANISM: Homo sapiens
 137 <400> SEQUENCE: 8 12
 138 ggggactttc cc
 140 <210> SEQ ID NO: 9
 141 <211> LENGTH: 73
 142 <212> TYPE: DNA
 143 <213> ORGANISM: Artificial Sequence
 145 <220> FEATURE:
 146 <221> NAME/KEY: Primer_Bind
 147 <223> OTHER INFORMATION: Synthetic primer with 4 tandem copies of the NF-KB binding site
 148 (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.
 149
 151 <400> SEQUENCE: 9
 152 gcggcctcgaa ggggactttc ccggggactt tccggggact ttccggact ttccatcctg 60
 153 ccatctcaat tag 73
 155 <210> SEQ ID NO: 10
 156 <211> LENGTH: 256
 157 <212> TYPE: DNA
 158 <213> ORGANISM: Artificial Sequence
 160 <220> FEATURE:
 161 <221> NAME/KEY: Protein_Bind
 162 <223> OTHER INFORMATION: Synthetic promoter for use in biological assays; includes NF-KB
 163 binding sites.
 165 <400> SEQUENCE: 10
 166 ctgcaggggaa ctttccccgg gactttccgg ggactttccgg ggactttcca tctgccatct 60
 167 caatttagtca gcaaccatag tcccgccctt aactccgccc atcccgcccc taactccgccc 120
 168 cagttccgccc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
 169 ggccgcctcg gcctctgagc tattccagaa gtatgtgagga ggcttttttg gaggcctagg 240
 170 cttttgcaaaa aagctt 256
 172 <210> SEQ ID NO: 11
 173 <211> LENGTH: 1388
 174 <212> TYPE: DNA
 175 <213> ORGANISM: Homo sapiens
 177 <220> FEATURE:
 178 <221> NAME/KEY: misc_feature
 179 <222> LOCATION: (1388)..(1388)
 180 <223> OTHER INFORMATION: n equals a,t,g, or c
 182 <400> SEQUENCE: 11

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Input Set : A:\PA004\P1seqList.txt
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183	cgggtcgacc cacgcgtccg	gtccctagga gataagagta	tcttgcacag cagggtcagg	60
184	tttcccagca gtcaggcaa	gagtccgatg ttttgccat	ctgatcctga tgtctggaga	120
185	gatagccatg tgtgagcctg	aatttggcaa tgacaaggcc	agggagccg gcgtgggtgg	180
186	caggtggcga gtgtcctggt	acgaacggtt tgtcagcca	tgtctggcg aactgctggg	240
187	ctctgctc tcacatctca	tcgggtgcct gtcggtcatt	gagaatggga cggacactgg	300
188	gctgtcgag ccggccctgg	cccacgggct ggcttgggg	ctcgtgattt ccacgctggg	360
189	gaatatca ggtggacact	tcaaccctgc ggtgtccctg	gcagccatgc tgatcgagg	420
190	cctcaacctg gtgtatgctcc	tcccgtactg ggttcacag	ctgctcgaaa ggtatgctgg	480
191	ggctgcctg gccaaggcgg	tgagtccctga ggagagggtt	tggaatgcat ctggggcggc	540
192	ctttgtaca gtccaggagc	aggggcaggt ggcaggggcg	ttgggtggcag agatcatcct	600
193	gacgacgctg ctggccctgg	ctgtatgcat ggggtccatc	aatgagaaga caaaggccc	660
194	tctggccccc ttctccatcg	gctttgcgtt caccgtggat	atcctggctg gggccctgt	720
195	gtctggaggc tgcatgaatc	ccgcccgtgc ttttggacct	gccccgtggg ccaaccactg	780
196	gaacctccac tggatctact	ggctggggcc actcctggct	ggcctgcctt ttggactgct	840
197	cattaggtgc ttcatggag	atggaaagac ccgcctcattc	ctgaaggctc agtgaagcag	900
198	agctcgtggg attcctgctg	ctccaggtgt cctcagctca	cctgtccctt actgaggaca	960
199	ggggagttcc tgcatttctt	gccaggcag aggcccagag	gagcgacccc ctgttccac	1020
200	tgcttggggcc tgcttctca	gataactga ctgtcgatgg	ggtcttagt tcttggatt	1080
201	ccttgtgt catcagagac	cccagctgg ggaacacgct	gccccactg cccagagagc	1140
202	agtgc当地	ccacaacacg agcgtgttcc	ttgagaggaa tgccccggag ttggacaagg	1200
203	aggctgtttc tgcacatcag	ctcatttccc gcacccatt	tcttkcttga ttgctttgtt	1260
204	gggggcctgg ccacttcctt	gcttctcaag ctgacaattc	tgcaacttgc aataaatagt	1320
205	ccagtgtttc cttccaaaaa	aaaaaaaaa aaaaaaaaaa	aaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1380
206	aaaaaaaaa			1388

w ✓
 208 <210> SEQ ID NO: 12
 209 <211> LENGTH: 1478
 210 <212> TYPE: DNA
 211 <213> ORGANISM: Homo sapiens
 213 <400> SEQUENCE: 12

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215	tctcgctgac tgcttcacct	cttacaagtc tgcccatccc	ggaagtaatg atgacaaaaat	120
216	actccaaacct tttcttggaa	agtcataaca tcteactgac	tgaacatitcc agtgtgccag	180
217	tggaaaaaaaaa tatcacttta	gaacgaccct ctgtgtaga	actcacatgt cagttcacaa	240
218	cttctgggaa tgtgaattca	gtaaatgtga cttggaaaaa	agggatgaa caacttaaga	300
219	attaccatgt cagtgcacca	gaaggcatcc tgtataccct	gtacaagttt tccatcat	360
220	atagcgaaca actggaaagc	tatttctgtt tctttgaaga	ggaaaaggaa cgaaggggca	420
221	catttaattt cggagtcct	gaagttcaga gaaaaacaa	accattgatc acttatgtgg	480
222	gggattccgt tgtcttggtg	tgtaaatgcc gacactgtgc	tcctttaaat tggacctgg	540
223	acagtgtaa taggagtgt	caggttcctc ttgtgttca	catgaatgaa aagtatgcga	600
224	tcaatggAAC aaacgcgaat	gaaacaaggc ttaagataat	gcagtttca gaagacgata	660
225	aaggatctt ttggtgccat	gcaatgttcc agtggcga	gagccaagaa agtgttgaac	720
226	tggttgtat aagtatttg	gtccccctca aaccatttct	tggaatagtt gttgaagtta	780
227	ttcttttagt ggcttattt	ctgtttgtt aaatgcacac	ccaaaagaaa aagatgcaca	840
228	tggatgtatgg gaaagaattt	gaacaagttt aacagtttga	atcagacgat agcaacggca	900
229	tagaaaataa tgccccagg	cacagaaaaa atgaagctat	gagccagtga aagcaaaaaca	960
230	tcgtgtcaag agtaatggga	agatgtatag tttctacttc	agtttggttt atgtttctgg	1020
231	tgaagaacat ctgagtttt	attttacaa ggataaaaag	tttatgtat atgctcagca	1080
232	gtagtttgc aataatacct	gctatctcag atccaaagat	atattttct tctgtgatta	1140
233	ttttacatta aagcaagta	aatcatatta aatatgttct	atgagctata acccaggata	1200

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234	actaatttca	tcttggtcat	caaggatgc	acagaagaga	taccagcaaa	accagttagt	1260
235	agtacatgaa	ctaatgtcat	tcaagacctg	cgtataacca	aagaattcat	taaagagaaa	1320
236	actttttgc	catttcctt	ggttttttt	ctaattatgc	ttactatgtg	tagaaatatt	1380
237	tgtataatt	ttcatgtaat	ggtcaccctc	tgtcatattg	gataaaaaca	tctttattaa	1440
238	gaaatgaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	1478
240	<210>	SEQ ID NO:	13				
241	<211>	LENGTH:	1684				
242	<212>	TYPE:	DNA				
243	<213>	ORGANISM:	Homo sapiens				
245	<220>	FEATURE:					
246	<221>	NAME/KEY:	misc_feature				
247	<222>	LOCATION:	(1)..(1)				
248	<223>	OTHER INFORMATION:	n equals a,t,g, or c				
250	<220>	FEATURE:					
251	<221>	NAME/KEY:	misc_feature				
252	<222>	LOCATION:	(18)..(18)				
253	<223>	OTHER INFORMATION:	n equals a,t,g, or c				
255	<220>	FEATURE:					
256	<221>	NAME/KEY:	misc_feature				
257	<222>	LOCATION:	(63)..(63)				
258	<223>	OTHER INFORMATION:	n equals a,t,g, or c				
260	<400>	SEQUENCE:	13				
261	ncggcgcgac	ccccccantt	ttaatgacgc	ctgccgtccg	gtccggaatt	cccggtcga	60
262	ccncgcgtcc	ggcgggaccg	gtttgcggga	agattctgtg	gacaatcacc	atggaaagca	120
263	aaggaggctt	catccttctg	ctcatcctcg	ctgtgtctcg	ccgttcaggt	catagcctga	180
264	catgtacgc	ctgttattgac	cgtgaaacct	gcaacaagac	cactgtttgt	tcaagttaatc	240
265	atgacgcgtg	tctgtggtc	aaagctgatc	caaaactttt	ttaccgcag	tgttggaaagt	300
266	ttgatgactg	cagctacctc	tctatctcca	aagccctggg	gctgaagaag	ctccagtgaca	360
267	gctgtgcaca	gaaggacctg	tgcaacggga	gtgccagggt	ctctggatg	acagcgttga	420
268	tgcgtctccc	cttgcggcg	gcagccttga	cgcttgcgt	ctaaatcaac	acggggaggc	480
269	cttctctaa	actttccgtg	tctccgtata	ctccatttt	ccttggctgc	tgcattggcca	540
270	cagtttatt	tcacctgtcc	cgttgggcaa	gactaacact	agtttggca	acttggtgac	600
271	aagagaggct	ctgagagacg	ttgaagggtca	gtccctgtgg	cagcgaagac	ccgtcgagg	660
272	gacatggtat	aaaagggtgc	agcacgtgcg	atctgagctc	ggccgcacgt	ttcttcctcg	720
273	gttttcaca	agagcagccct	cgccaggacac	gcttsgtac	ctcagatct	ctgcaggggcc	780
274	cggtcatgg	tattttccct	ctgatggctt	ggaggtgatt	tttaaatact	ctgatctgga	840
275	ggggagggcg	gtggtaactgg	gacagggggt	tctttcgac	agcctctccc	aggaatgct	900
276	ttcatcctct	ccctttatgg	cacccgcgt	gccaaggcagg	cccgaccacg	ctcccacatg	960
277	cgggctgttg	gggagcggcc	gggagattct	cagtgtgg	tgatcgca	gacctttgt	1020
278	gtctcaactc	gcgggtgcct	ggcagggaag	gaggggagct	ttccacacgg	cagggccttg	1080
279	aactcccagg	tctgtcttcc	gaaaagtgc	agtggctaaa	atcagatgtt	tcctctatca	1140
280	ctcggttgt	aatgggctt	gtttgtctgc	agtagagaaa	cttagcatct	aataatgtg	1200
281	tgtaaaatt	atcccttcaa	ctttgcatac	agattggtgg	ggtatctgg	cttgcaca	1260
282	cgcagttaaa	gtctkaacgt	tgggacactc	tgtaaaaat	aactcgtagt	ggggcacctg	1320
283	ggtggctcag	tgggttaaag	cctctaccc	gggatcatga	cctgagggtga	aggcagaggc	1380
284	ctagcccact	gagccaccca	ggccccccta	aaagtgttac	accttttgag	gaagagttt	1440
285	gccttttct	tgggtgtt	cctgaataat	ttgcaagatc	cagcagtcgg	aaggacactt	1500
286	gttttctwat	catctcggt	gtctctaaca	gcacagctt	gcttttgca	gatgaagggt	1560
287	ggacttcagg	attaacattt	tttttcactc	ccttgctcat	gtaatctatg	taacaggctg	1620

Use of n and/or Xaa has been detected in the Sequence Listing.
 → Please review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/023,896

DATE: 01/15/2002
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Input Set : A:\PA004\P1seqList.txt
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L:7 M:270 C: Current Application Number differs, Replaced Current Application No
L:7 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:1317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:1360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:1361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:1431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:1507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:2624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:2884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100
L:3454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128
L:3457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128
L:3460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128